

Saline County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Saline County economy.¹

These 23 sectors have a total direct output of approximately **\$798.4 million** and support **2,780 jobs** in Saline County. Running the model for all 23 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Saline County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	2779.7	6.64%	\$174,126,294	6.28%	\$798,413,279
Indirect Effect	959.9	2.29%	\$84,032,607	3.03%	\$153,696,139
Induced Effect	894.1	2.14%	\$63,155,221	2.28%	\$112,240,749
Total Effect	4633.8	11.07%	\$321,314,122	11.60%	\$1,064,350,168

As shown in the above table, agriculture, food, and food processing sectors support **4,634 jobs**, or **11.07%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately **\$321.3 million**, or **11.60% of the GRP**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelptest.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the frozen specialties manufacturing sector is the top employer with **1,022 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Saline County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Frozen specialties manufacturing	1,021.8	\$374,436,697
Farm machinery and equipment manufacturing	674.3	\$260,530,090
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	382.8	\$26,411,906
Wholesale trade	306.9	\$58,043,222
Landscape and horticultural services	207.9	\$12,714,242
Grain farming	129.8	\$27,999,155
Truck transportation	115.8	\$15,071,761
Veterinary services	78.2	\$9,156,692
Management of companies and enterprises	74.5	\$14,700,607
Full-service restaurants	73.9	\$3,468,170

The frozen specialties manufacturing sector directly contributes approximately **\$374.4 million** to the Saline County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Frozen specialties manufacturing	1,021.8	\$374,436,697
Farm machinery and equipment manufacturing	674.3	\$260,530,090
Wholesale trade	306.9	\$58,043,222
Flour milling	45.8	\$55,029,500
Grain farming	129.8	\$27,999,155
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	382.8	\$26,411,906
Truck transportation	115.8	\$15,071,761
Owner-occupied dwellings	0.0	\$14,926,064
Management of companies and enterprises	74.5	\$14,700,607
Oilseed farming	23.3	\$14,332,952

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Saline County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	23.3	\$14,332,952.50
Grain farming	129.8	\$27,999,155.04
Vegetable and melon farming	0.2	\$22,306.32
Fruit farming	2.5	\$125,789.36
Tree nut farming	0.0	\$14.83
Greenhouse, nursery, and floriculture production	1.3	\$107,241.68
All other crop farming	66.2	\$3,037,626.74
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	382.8	\$26,411,905.29
Dairy cattle and milk production	2.4	\$570,306.42
Poultry and egg production	0.6	\$277,469.22
Animal production, except cattle and poultry and eggs	16.6	\$1,183,709.03
Commercial logging	6.9	\$182,327.29
Commercial hunting and trapping	6.7	\$130,718.93
Support activities for agriculture and forestry	51.1	\$1,665,431.02
Flour milling	45.8	\$55,029,499.05
Frozen specialties manufacturing	1021.8	\$374,436,706.54
Bread and bakery product, except frozen, manufacturing	39.1	\$4,654,811.86
Frozen cakes and other pastries manufacturing	2.5	\$384,297.34
Wineries	5.9	\$1,830,674.41
Farm machinery and equipment manufacturing	674.3	\$260,530,090.33
All other industrial machinery manufacturing	13.8	\$3,629,321.34
Veterinary services	78.2	\$9,156,691.55
Landscape and horticultural services	207.9	\$12,714,241.98

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Saline County, the retail sector was omitted.